

$$\begin{aligned}
 w_1 &= c_2 x[n] - k_2 w_5 \\
 w_3 &= w_2 z^{-1} \\
 y[n] &= x[n] k_2 + c_2 w_5 \\
 f[n] &= \frac{1}{2} c [x[n] + y[n]] + \frac{c}{2} [x[n] - y[n]] \\
 w_5 &= w_4 z^{-1} \\
 w_2 &= c_1 w_1 - k_1 w_3 \\
 w_4 &= k_1 w_1 + c_1 w_3
 \end{aligned}$$

Figure 1

Doc

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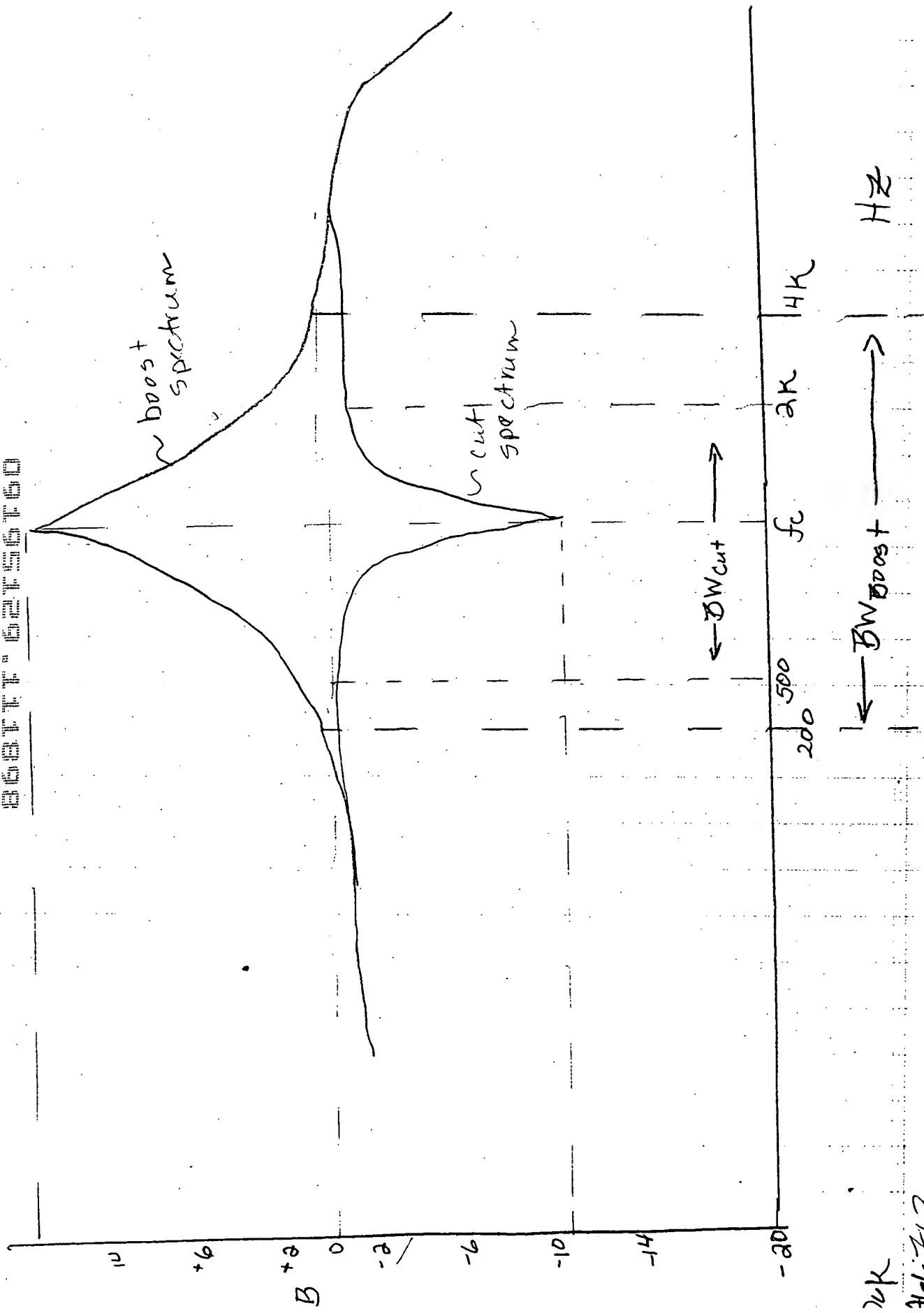


Figure 2 (Prior Art)

20K  
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2/1/98

001551.1398 "SECRET"

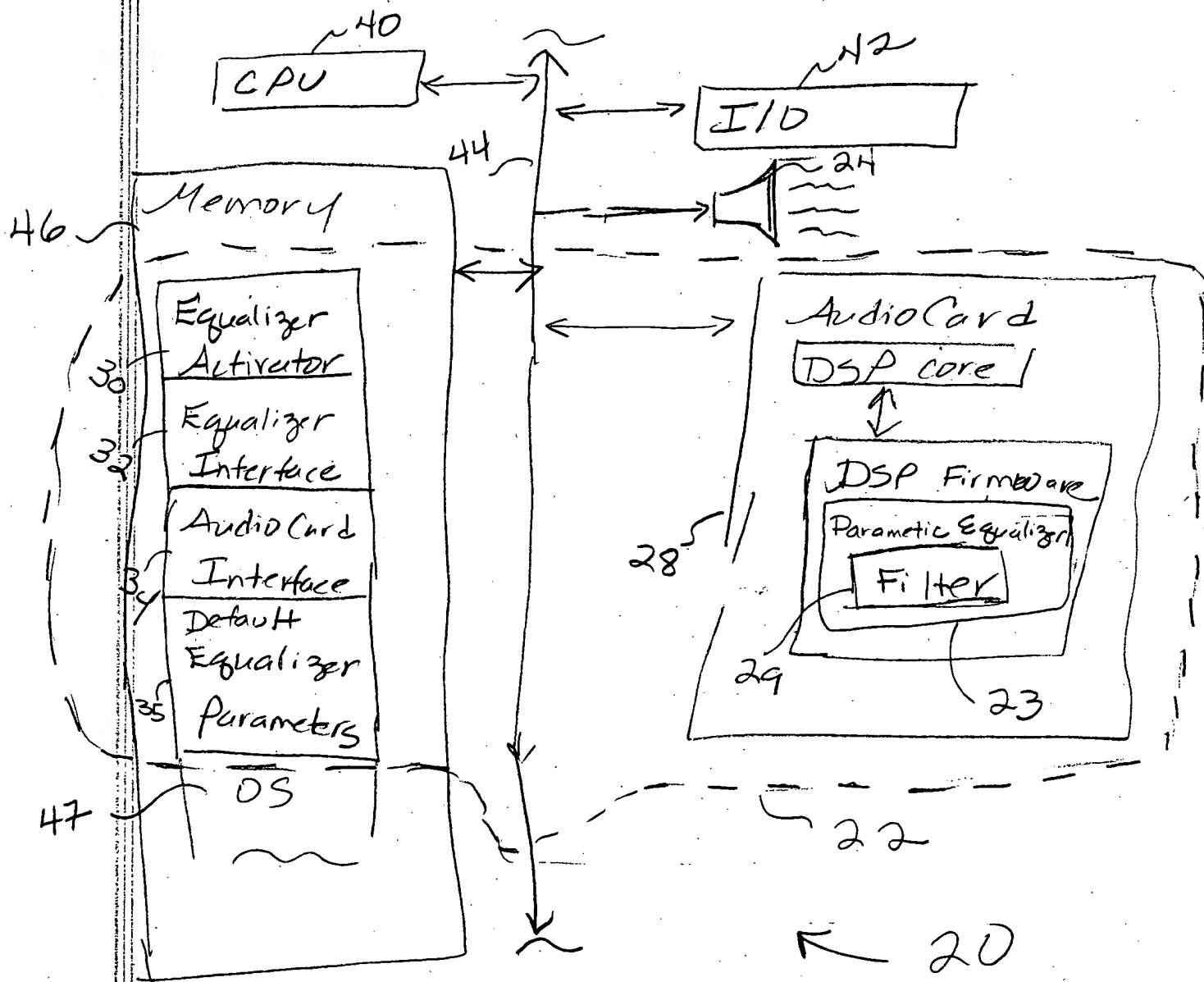
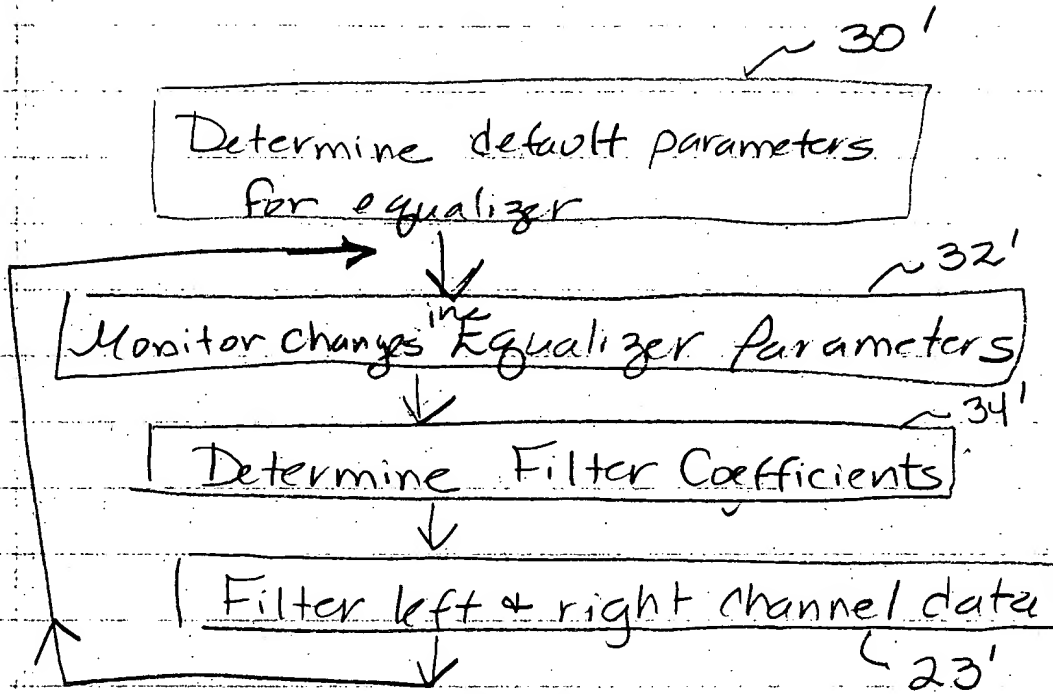


Figure 3

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9/22/98



PC: Equalizer Activator 30

PC: Equalizer Interface 32

PC: AudioCard Interface 34

AudioCard: Parametric Equalizer 23

Figure 4

00195129  
001515160  
DAK  
A66713  
00/15/98

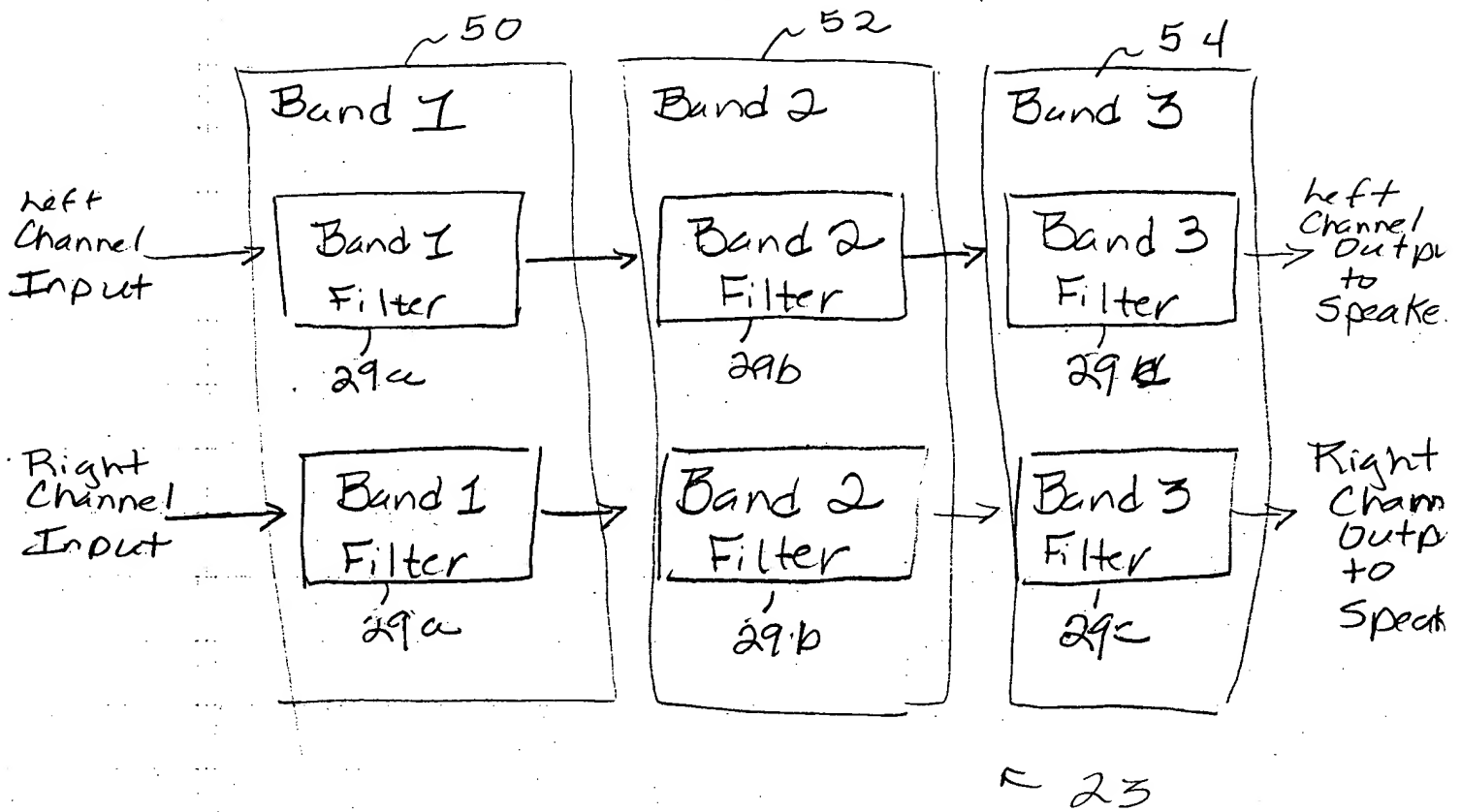


Figure 5

00195129-11898

OK  
ALB  
9/30/98

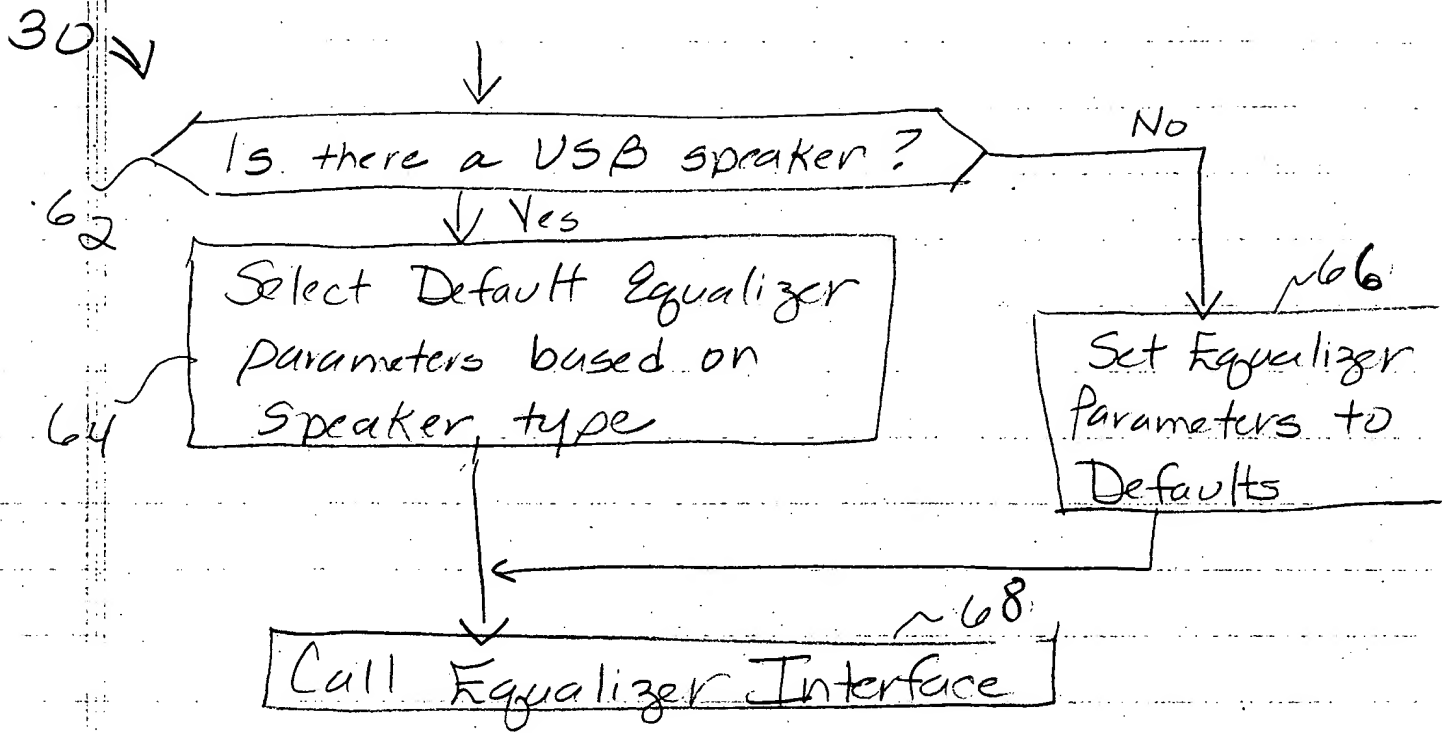


Figure 6

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32  
↘

↓  
Present Equalizer User Interface ~ 70  
w/ Default Parameters

↓  
Monitor Equalizer User Interface  
for modification of Parameters ~ 72

↓  
Insure Sound Quality ~ 74

↓  
Call Audio Card Interface ~ 76

Figure 17

0015120  
0015120  
0015120

OK

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09156150 115818

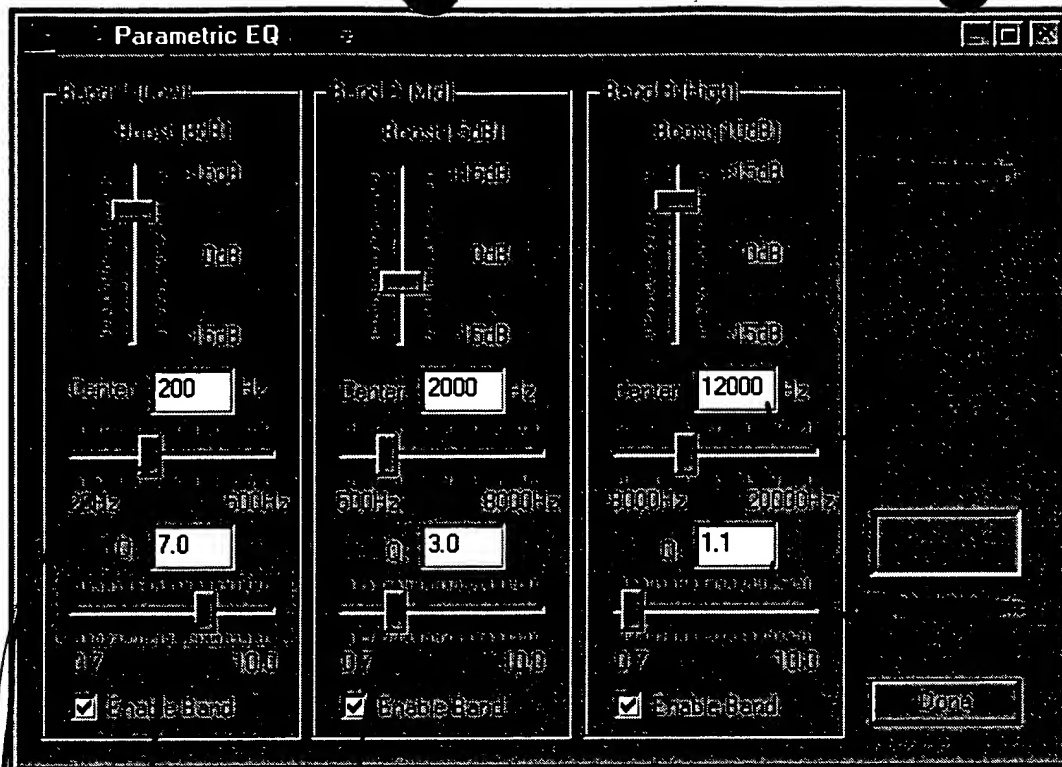


Figure 8 <sup>82</sup>

Ok  
AL6413  
9/22/98



74 ↓



Determine whether combined cut/boost of First and Second Band too great using relationship <sup>for</sup> adjacent bands ~90 (7)



Determine whether combined cut/boost of Second and Third Band too great using relationship for adjacent bands ~92 (8)



Determine whether combined cut/boost of First and Third Band too great using relationship for nonadjacent bands ~94



If any of the combined cut/boosts too great, request <sup>effect</sup> user alter parameters of the equalizer bands ~96



Figure 9

0212

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9/2 9/8

091951 0011000

AudioCard  
Interface

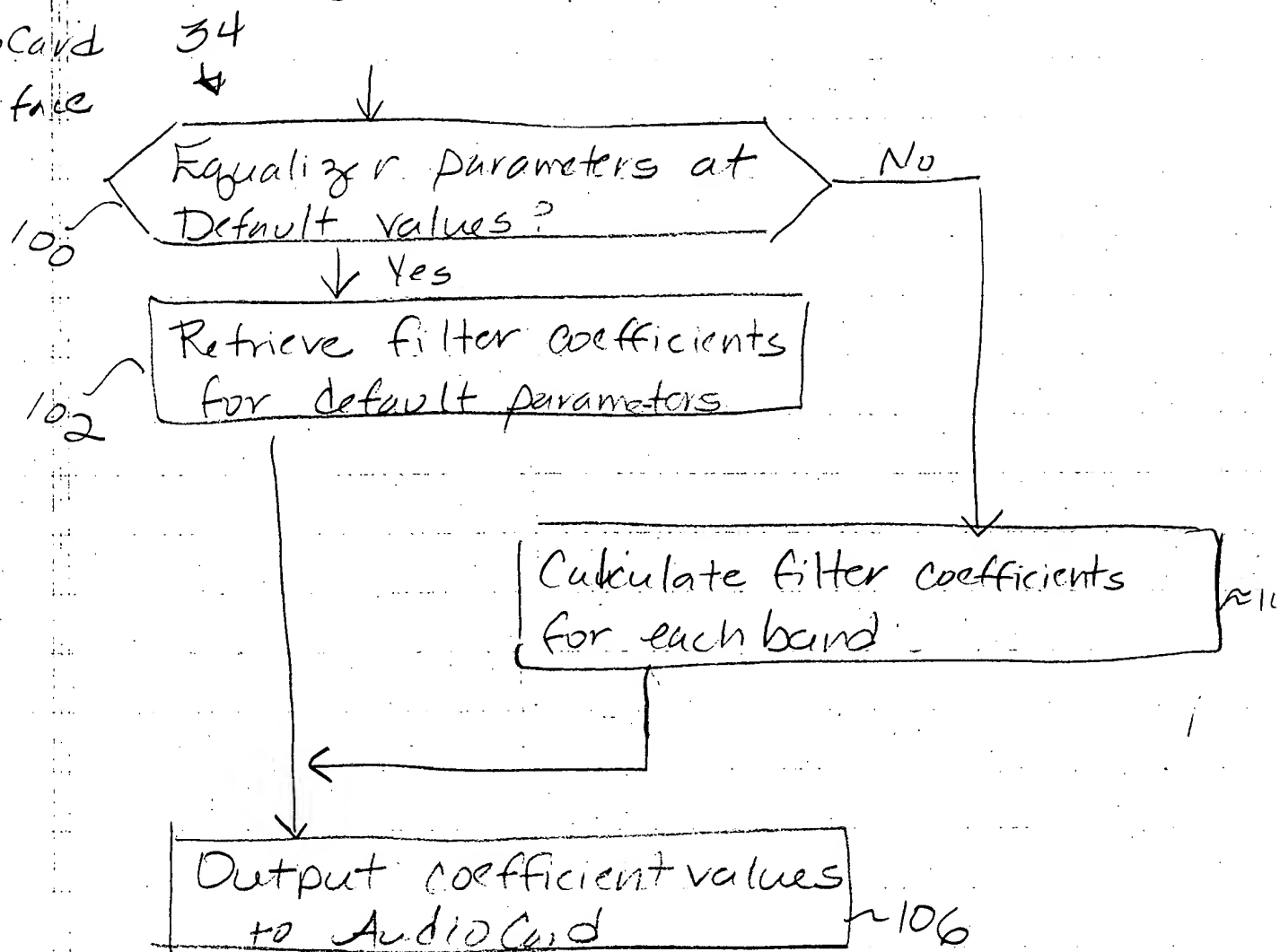
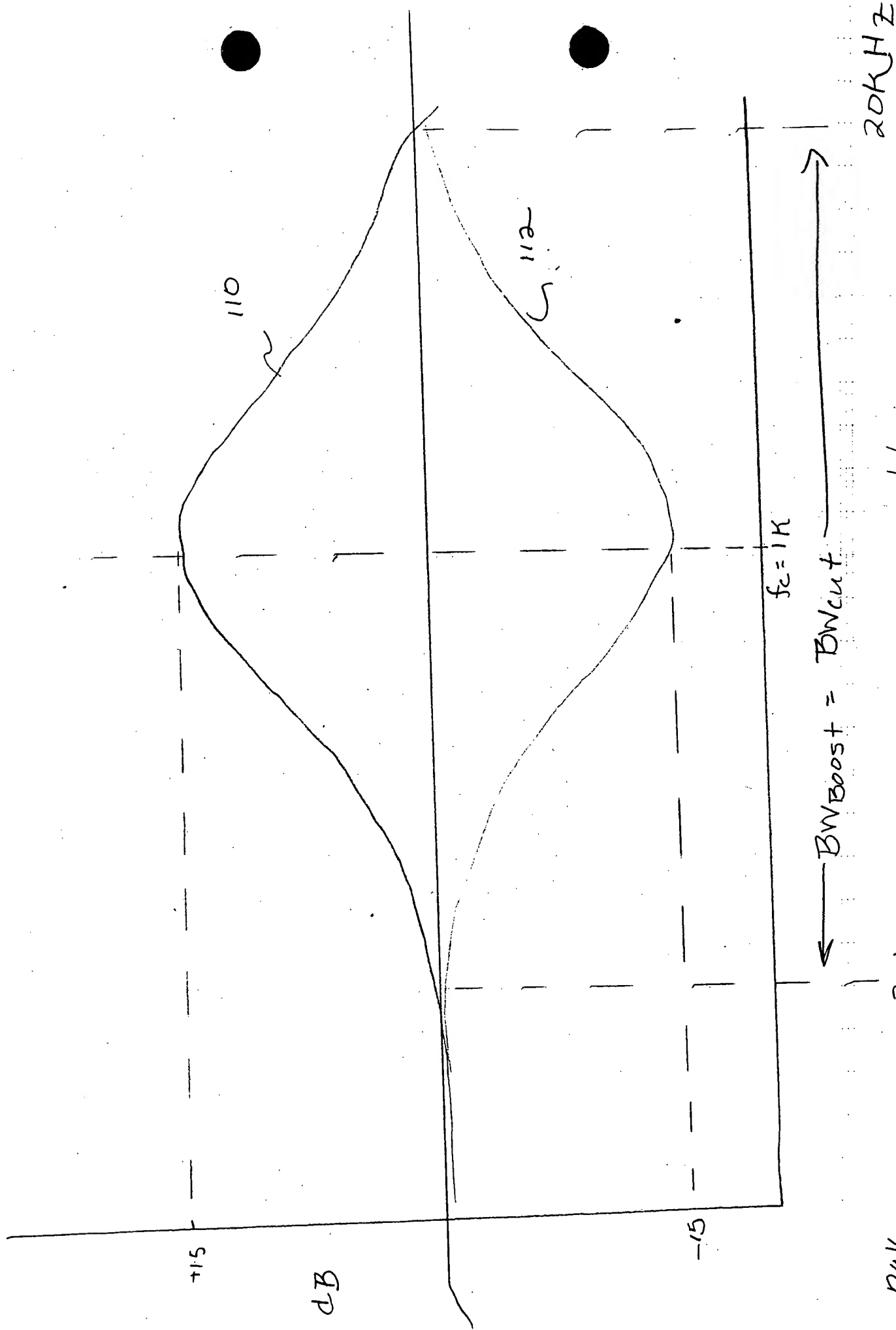


Figure 10

Dak

A667B

10/27/99



Duk

30Hz

Figure 11

Hz

20KHz

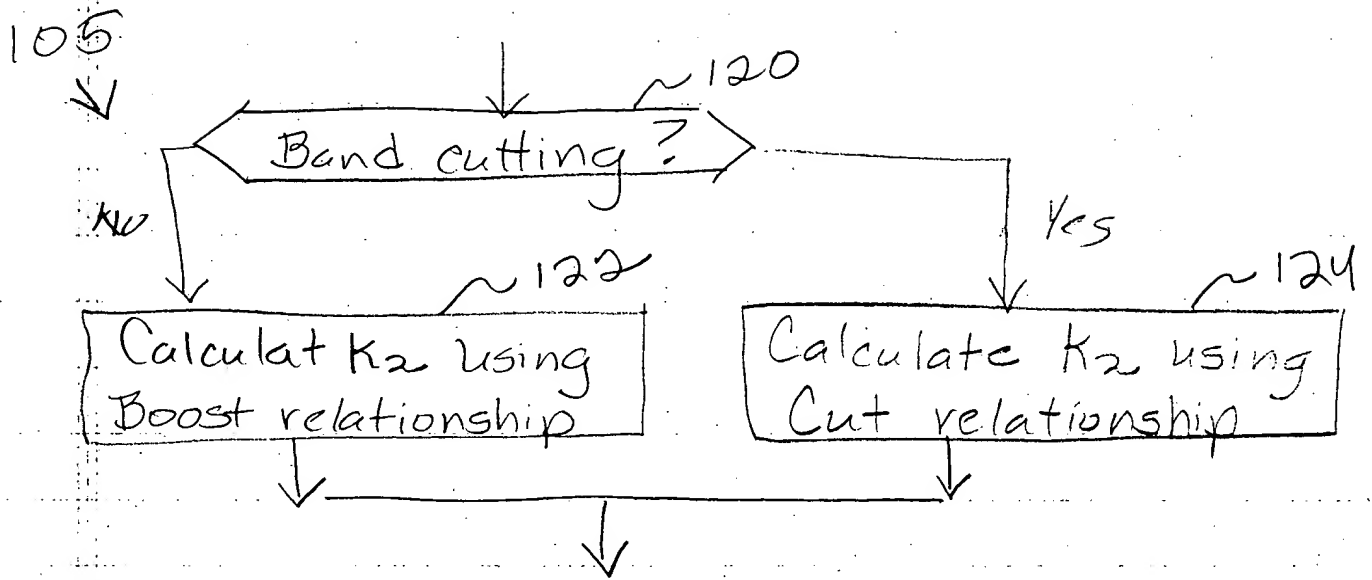


Figure 12

09150160

QAK

AL66700

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